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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,068	07/18/2003	Hans-Jorg Timme	Z&PINFN10356	2691
	7590 03/21/200 ENBERG STEMER LI		EXAM	INER
P O BOX 2480		-	GHYKA, ALI	EXANDER G
HOLLYWOOD), FL 33022-2480		ART UNIT PAPER NUMBER	
			2812	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	03/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			RD
	Application No.	Applicant(s)	
	10/623,068	TIMME ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alexander G. Ghyka	2812	,
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communicat ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _			
	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal ma	itters, prosecution as to the merits	is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			·
4)⊠ Claim(s) <u>1-29 and 32-34</u> is/are pending in t	he application.		
4a) Of the above claim(s) 1-21 is/are withdr	awn from consideration.	ALEXANDER GHYKA	
5) Claim(s) is/are allowed.		PRIMARY EXAMINER	
6)⊠ Claim(s) <u>22-29 and 32-34</u> is/are rejected.		tu 2812	
7) Claim(s) is/are objected to.		αI	
8) Claim(s) are subject to restriction ar	nd/or election requirement.	Why XLAR	
Application Papers			
9) The specification is objected to by the Exan	niner.	·	
10) The drawing(s) filed on is/are: a)	accepted or b)⊡ objected t	o by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the con			
11) The oath or declaration is objected to by the	e Examiner. Note the attach	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:		§ 119(a)-(d) or (f).	
 Certified copies of the priority docum Certified copies of the priority docum 		Application No.	
3. Copies of the certified copies of the			
application from the International Bu	•	in the real and stage	
* See the attached detailed Office action for a		ot received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	• —	v Summary (PTO-413) o(s)/Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO/SB/08) 		f Informal Patent Application	
Paper No(s)/Mail Date	6) 🗌 Other: _	<u> </u>	

DETAILED ACTION

Applicants' response of 11/20/2006 has been considered and entered in the record. Claims 22-29 and 32-34 are under consideration. Applicants' arguments have been considered but they are not persuasive for the reasons as discussed below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 22-24 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Funada et al (US 6,078,299) for the reasons of record.

Response to Applicants' Arguments

Applicants' argue that Funada explicitly discloses that the bump (16) connects the piezoelectric substrate (11) (Examiner's carrier substrate) to the circuit substrate (12) (Examiner's capping substrate). Applicants argue that Funada et al does not disclose a wiring substrate and does not disclose that the bump (16) connects a filter to a wiring substrate. Applicants argue that Funada et al does not disclose a carrier substrate and a capping substrate are connected to a wiring substrate by an

interconnection.

The Examiner notes that Funada et al disclose that electrical power is supplied to the piezoelectric substrate from the circuit substrate via electrode pads. See the Abstract. Moreover, Funada et al disclose forming conductive layers on the back and the side of the piezoelectric substrate and connecting them to a ground electrode. See column 6, lines 55-60. The Examiner states that it would be inherent that the electrical power supplied to the piezoelectric substrate would be supplied by a wiring substrate, and therefore the Funada reference discloses all of the claimed limitations. Therefore, Funada et al anticipates all of the claimed limitations.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funada et al (US 6,078,299) in view of Tanski (US 4,409,570) for the reasons of record.

Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funada et al (US 6,078,299) in view of Penumuri (US 5,287,036) for the reasons of record.

Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Funada et al (US 6,078,299) in view of Yamada (US 5,932,950) for the reasons of record.

Response to Applicants' Arguments

Applicants argue that the Funada et al reference does not disclose the claimed limitations. The rejections are maintained as discussed above with respect to the Funada et al reference.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (571)

272-1669. The examiner can normally be reached on Monday through Friday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AGG March 17, 2007

> ALEXANDER GHYKA PRIMARY EXAMINER